12-17-01

### UTILITY PATENT APPLICATION TRANSMITTAL (Large Entity)

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Docket No. FIS920010258US1(14899)

Total Pages in this Submission

### TO THE ASSISTANT COMMISSIONER FOR PATENTS

Box Patent Application Washington, D.C. 20231

	Fransmitted herewith for filing under 35 U.S.C. 111(a) and 37 C.F.R. 1.53(b) is a new utility patent application for an expension entitled:									
_	VERTICAL DRAM PUNCHTHROUGH STOP SELF-ÀLIGNED TO STORAGE TRENCH									
										o E
	0.00 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1									
	d invented by:  Jack A. Mandelman									
D	Dureseti Chidambarrao									
R	Ramachandra Divakaruni									
lf a (	CONT	INUA	TION	API	PLICATION,	 chec	k appropriate bo	x and supply	the requisite information:	
<u> </u>	Conti								of prior application No.:	
	ch is a	:								
41	Conti		ion		Divisional		Continuation-i	in-part (CIP)	of prior application No.:	
	ch is a		•		Distribund		<b>0</b>	: (OID)	C. Continue No.	
Ľ	Conti	nuat	ion		Divisional	Ц	Continuation-i	in-part (CIP)	of prior application No.:	
₩ Encl	osed a	are:								
	Conti						Application	Elements		
" 1			g fee	as c	alculated and	l trar	nsmitted as desc	ribed below		
_	<b>53</b>	0		•••			10		the state of the state of	
2	. <b>X</b>	Spe	cifica	lion i	having		18	_ pages and II	ncluding the following:	
	a.	X	Desc	cripti	ive Title of the	: Inve	ention			
	b.		Cros	s Re	eferences to F	₹elat	ted Applications	(if applicable)		
	C.	Statement Regarding Federally-sponsored Research/Development (if applicable)								
	d.	Reference to Microfiche Appendix (if applicable)								
	e. 🗵 Background of the Invention									
	f.	X	Brief Summary of the Invention							
	g.	X	Brief	f Des	scription of the	e Dra	awings <i>(if drawin</i>	gs filed)		
	h.	X	Deta	ailed	Description					
	i.	X	Clair	n(s)	as Classified	Belo	ow			
	j.	X	Abst	ract	of the Disclos	sure				

# UTILITY PATENT APPLICATION TRANSMITTAL (Large Entity)

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Docket No. FIS920010258US1(14899)

Total Pages in this Submission

3.	X	Dra	Drawing(s) (when necessary as prescribed by 35 USC 113)								
	a.	X	Formal	Number of Sheets		22					
	b.		Informal	Number of Sheets							
4.	X	Oath or Declaration									
	a.	×	☑ Newly executed (original or copy) ☐ Unexecuted								
	b.		Copy from a prior a	pplication (37 CFR 1.63	(d)) (for co	ontinuation/divisional	application only)				
	c.   With Power of Attorney  Without Power of Attorney										
j D D	d.	DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 C.F.R. 1.63(d)(2) and 1.33(b).									
5. 1		Incorporation By Reference (usable if Box 4b is checked) The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.									
6. U 7.		Computer Program in Microfiche (Appendix)									
7.		Nucleotide and/or Amino Acid Sequence Submission (if applicable, all must be included)									
	a.	☐ Paper Copy									
	b.		☐ Computer Readable Copy (identical to computer copy)								
	C.		Statement Verifying	Identical Paper and Co	mputer R	eadable Copy					
	Accompanying Application Parts										
8.	×	Assignment Papers (cover sheet & document(s))									
9.		37 (	CFR 3.73(B) Statement	ent (when there is an as	signee)						
10.		Eng	lish Translation Doc	ument (if applicable)							
11.	X	Info	rmation Disclosure S	Statement/PTO-1449	⊠ Co <sub>l</sub>	pies of IDS Citatior	ns				
12.	.   Preliminary Amendment										
13.	13. Acknowledgment postcard										
14.	×	Cer	tificate of Mailing								
			First Class 🛛	Express Mail (Specify L	abel No.):	EK602285576US					

**Application Elements (Continued)** 

# UTILITY PATENT APPLICATION TRANSMITTAL (Large Entity)

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Docket No. FIS920010258US1(14899)

Total Pages in this Submission

		Accompanying Application Parts (Continued)						
15.		Certified Copy of Priority Document(s) (if foreign priority is claimed)						
16.	X	Additional Enclosures (please identify below):						
		ASSIGNEE NAME: INTERNATIONAL BUSINESS MACHINES CORPORATION ASSIGNEE RESIDENCE: ARMONK, NEW YORK						
		Request That Application Not Be Published Pursuant To 35 U.S.C. 122(b)(2)						
17.		Pursuant to 35 U.S.C. 122(b)(2), Applicant hereby requests that this patent application not be published pursuant to 35 U.S.C. 122(b)(1). Applicant hereby certifies that the invention disclosed in this application has not and will not be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication of applications 18 months after filing of the application.						
8 <b>!=</b>		Warning						
The first time that the state of the state o		An applicant who makes a request not to publish, but who subsequently files in a foreign country or under a multilateral international agreement specified in 35 U.S.C. 122(b)(2)(B)(i), must notify the Director of such filing not later than 45 days after the date of the filing of such foreign or international application. A failure of the applicant to provide such notice within the prescribed period shall result in the application being regarded as abandoned, unless it is shown to the satisfaction of the Director that the delay in submitting the notice was unintentional.						

# UTILITY PATENT APPLICATION TRANSMITTAL (Large Entity)

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Docket No. FIS920010258US1(14899)

Total Pages in this Submission

For For Total Claims		- 0-11-4	· J. Turn	*44-1					
Signature Control of the Control of		Fee Calculat		ısmittaı					
	41=-11	CLAIMS A			7-4-		Fac		
o For	#Filed		#Extra		Rate		Fee		
I +	20	- 20 =	0	х	\$18.00		\$0.00		
indep. Claims	2	- 3 =	0	×	\$84.00		\$0.00		
	nt Claims (check if	applicable) L				24010 FEE	\$0.00 \$740.00		
OTHER FEE (spe	:					BASIC FEE	\$0.00		
OTHER FEE (Spe	ecity purpose) 		#		TOTAL	FII INO FEE			
					IOIAL	. FILING FEE	\$740.00		
□ A check in the amount of to cover the filing fee is enclosed.  ☑ The Commissioner is hereby authorized to charge and credit Deposit Account No.  as described below. A duplicate copy of this sheet is enclosed.  ☑ Charge the amount of \$740.00 as filing fee.									
<ul> <li>☑ Credit any overpayment.</li> <li>☑ Charge any additional filing fees required under 37 C.F.R. 1.16 and 1.17.</li> <li>☐ Charge the issue fee set in 37 C.F.R. 1.18 at the mailing of the Notice of Allowance, pursuant to 37 C.F.R. 1.311(b).</li> </ul>									
Dated:	Joseph P. Abate.								
cc:			Into 207 Hoj	0 Route	Property 1 52 inction, Ne	Law - Zip 482 ew York 12533			

CERTIFICATE OF	MAIL" (37 CFR 1.10)	Docket No.							
Applicant(s): Jack A. M	FIS920010258US1(14899)								
Serial No. Filing Date Examiner Group Art Unit									
Unassigned	Herewith	Unassigned	Unassigned						
		<del>-</del>							
Invention: VERTICAL DRAM PUNCHTHROUGH STOP SELF-ALIGNED TO STORAGE TRENCH									
I hereby certify that the	e following correspondence:								
New Utility Patent App	plication								
,	77.100								
<u>a_ s</u>	(Identify type of correspondence)								
is being deposited with	being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under								
37 CFR 1 10 in an env	relope addressed to: The Assista	nt Commissioner for Patents W	/ashington D.C. 20231 on						
is being deposited with an env in an	lar	nt commoderior for rateme, re	raomington, D.O. 2020 . On						
(Date,									
STATES		Karen Cinq-Man	rs						
		(Typed or Printed Name of Person Mo							
ACTIVITIES OF THE PROPERTY OF		(Signature of Person Mailing	Correspondence)						
		EK60228557	6US						
	1 <del>000   1</del>	("Express Mail" Mailing L	abel Number)						
Note: Each paper must have its own certificate of mailing.									